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## NEW ARRIVALS

[ We will be publishing a short introduction to the Books we receive from Publishers. The detailed *Review* will be published in due course in our regular Book Review Section—Ed.]

### **Vikram Sarabhai : The Man and the Vision**

*edited by* Padmanabh K Joshi

Mapin Publishing Pvt Ltd : Ahmedabad, India, 1992

192 pages, illustrated; price : Rs. 275.00 (Hard cover)

This book is a collection of articles written in memory of Vikram Sarabhai, the well known Indian Scientist, on his multifaceted personality by people who knew him. Each article is preceded by quotations from Dr Sarabhai's own writing. Many of the articles cover wide section of the spectrum of his personality and activities as the man, the scientist, the entrepreneur, the policy maker and planner and the educationalist. Readers of this book will know about his work, his youth and above all his vision.

KANIKA ROY

### **Quantum Mechanics on the Personal Computer**

(2nd edition, with a Program Diskette)

*by* S Brandt and H D Dahmen

Springer-Verlag : Berlin, 1992 ISBN 3-540-55722-9

xii + 267 pages, 69 figures, hard cover, price DM 98.00

The book contains exercises and computer graphics worked out for a complete course in quantum mechanics, that is best offered in parallel with a lecture course on Quantum Physics. The book consists of a set of programs that allow classroom demonstrations of pre-recorded problems with explanatory text. In this new (second) edition, the programs have been improved in several ways; in particular acceptable computing times may, in the programs of this second version, be achieved without the necessity of a mathematical coprocessor. The programs have been written mostly in Fortran 77, with a few routines in C, and run on the IBM PC and PS/2 or compatible systems.

PARSATHI CHATTERJEE

**Direct Nuclear Reactions (Proceedings of the International Seminar,  
Bangalore, India, Jan 12-16, 1989)***edited by* N G Puttaswamy,

Indian Academy of Sciences, Bangalore 1991; ISBN 81-85324-11-5

ix + 555 pages, illustrated, soft cover, price Rs. 300/- (India), \$ 30.00 (Other countries)

This is the proceedings of a seminar held at Bangalore, India during January 12-16, 1989 with the aim of reviewing current trends in various aspects of direct nuclear reactions initiated by both light and heavy ions. This book contains 38 invited and 12 contributed papers. The invited papers have been arranged in six separate sections. Each section specifically deals with a particular category of reaction. The various categories covered are high energy reactions, heavy ion-induced direct reactions, scattering and charge-exchange reactions with light ions, experimental and theoretical aspects of transfer reactions with light ions, and finally, knock-out, break-up and fragmentation reactions. Taken together, these articles provide a good overview of the present status of studies in these types of reaction.

SHIBSHANKAR BHATTACHARYYA

**The Physics of Karma (A requiem to Time)***by* V Dwaraknath Reddy

Mapin Publishing Pvt Ltd, Ahmedabad, 1992

168 pages; price : 275/-

As noted in the Preface, this is a challenging book on the important concepts in the physico-mental complex of life. "The discussion is not philosophy or metaphysics— it has a vibrancy of art and aesthetics celebrating the beauty and harmony of the eternal on earth"! The book is divided into a large number of smaller segments on various thoughts *e.g.*, Time and I, Time and Mind, When did creation occur ? In quest of the unified field, The origin of thought, the supremacy of the non-doer etc. Each one is a thought process of the writer which evokes readers, interests, knowledge and imagination. The foreword is written by Dr E C G Sudarshan.

S P SENGUPTA